

MAA COMMITTEE ON COMPUTERS IN MATHEMATICS EDUCATION

FRIDAY, 17-JAN-2003

1:00 P.M. – 2:30 P.M.

CAMDEN

HYATT REGENCY

BALTIMORE, MD

AGENDA

- I. Call to Order
 - II. Attendance
 - III. Review of Minutes from the last meeting
 - IV. Activities at the current meeting
- [Computation Mathematics in Linear Algebra and Differential Equations](#)
 - **Richard J. Marchand**, SUNY Fredonia marchand@cs.fredonia.edu
 - **Elias Deeba**, University of Houston-Downtown
 - **Timothy J. McDevitt**, Naval Surface Warfare Center, Dahlgren, VA

Computer algebra systems, spreadsheets and graphing calculators have become popular tools for facilitating numerical investigations of many meaningful problems in Linear Algebra and Differential Equations. Such investigations lead to better students' understanding of mathematical concepts while empowering them with the capabilities to analyze more realistic problems. This session invites papers describing novel projects from these disciplines in which technology is required. Outstanding papers may be considered for publication as part of an MAA collection.

- [Innovative Use of the World Wide Web in Teaching Mathematics, I](#)
 - **Brian E. Smith**, McGill University smithb@management.mcgill.ca
 - **Marcelle Bessman**, Jacksonville University
 - **Marcia P. Birken**, Rochester Institute of Technology
 - **Thomas E. Leathrum**, Jacksonville State University
 - **David M. Strong**, Pepperdine University
 - **Joe Yanik**, Emporia State University

This session seeks to highlight innovative teaching strategies in mathematics that emphasize the use of the World Wide Web as a learning tool. These strategies could include the construction of teaching materials or creative use of existing or standardly available materials. This session will include Java Applets, and other Mathlets used in teaching mathematics.

- V. Activities planned for MathFest 2003, Boulder, CO, July 31- August 2, 2003
 - a. E-Learning of Mathematics Courses

Elias Deeba, University of Houston-Downtown

Ananda Gunawerdena, Carnegie-Mellon University

1 session

This session invites papers that describe 3-learning mathematics course. Papers that deal with methods of design, implementation, delivery assessment and maintenance of complete e-learning environments, as well as experiences implementing such courses are welcomed.

b. Creative use of Technology in Teaching Mathematics

Mary L. Platt, Salem State College

Marcelle Bessman, Jacksonville University

2 sessions

This session will focus on innovative uses of technology to support and enhance the learning of mathematics in all college courses. In particular, we are interested in the use of technology to support conceptual understanding and appreciation of the application of mathematical principles to solving real world problems. The session is sponsored by the MAA Committee on Computers in Mathematics Education (CCIME).

- VI. Discussion and Approval of proposals for Joint Meetings 2004, Phoenix, AZ, January 7-10, 2004
 - a. The Committee on Contributed Papers has forwarded four proposals for consideration. See below.
 - b. Other proposals.
- VII. Preliminary discussion of proposals for MathFest 2004, Providence, RI, August 12-14, 2004
- VIII. WEBSIGMAA

Organizational Reception, Wednesday, 7:00 p.m. – 8:15 p.m. This Special Interest Group will focus on the use of the World Wide Web for undergraduate mathematics instruction, whether for distance learning or as an adjunct to a traditional course. The reception will provide an opportunity for the organizers and potential members to meet each other and discuss plans for the group.

(Note: No location for the reception is given in the program booklet.)

- IX. Other
- X. Adjourn

CONTRIBUTED PAPER PROPOSALS
FORWARDED BY THE COMMITTEE ON CONTRIBUTED PAPERS
(Numbering is from CCP)

7. The Use of Hand-held Technology in College and University Developmental Algebra Classrooms

Wade Ellis, West Valley College

Ed Laughbaum, The Ohio State University

8. Focus on Graphing and CAS Handhelds in Collegiate Mathematics-The Good/The Bad/The Appropriate

Charles E. Hofmann, Lasalle University

Joseph R. Fiedler, California State University, Bakersville

12. The Effective Use of Computer Algebra Systems in the Teaching of Mathematics

Edward A. Connors, University of Massachusetts

Carl Leinbach, Gettysburg College

17. Mathlets for Teaching and Learning Mathematics

David Strong, Pepperdine University